

LISTING OF CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-12. (Cancelled)

13. (Currently amended) A method for identifying a compound that modulates a tissue protective activity, comprising:

- (a) contacting a test compound with a tissue protective cytokine receptor complex-expressing cell, wherein said cell is transformed with a nucleic acid comprising a nucleotide sequence that encodes a reporter gene operably linked to a regulatory element associated with a tissue protective cytokine receptor complex activity;
- (b) identifying a test compound that increases or decreases the level of reporter gene expression relative to the level of reporter gene expression measured in the absence of the test compound, and
- (c) assaying the identified test compound for a tissue protective activity, wherein a test compound that increases the level of reporter gene expression relative to the level of reporter gene expression in the absence of the test compound is identified as a compound that modulates a tissue protective activity.

14. (Previously Presented) The method of Claim 13, wherein the regulatory element is a serum response element.

15. (Cancelled)

16. (Currently amended) The method of ~~any one of Claims 5, 11, 12, 13, or 15~~, wherein the cell is a prokaryotic cell.

17. (Currently amended) The method of ~~any one of Claims 5, 11, 12, 13, or 15~~, wherein the cell is a eukaryotic cell.

18. (Previously Presented) The method of Claim 17, wherein the eukaryotic cell is a human cell.

19. (Currently amended) The method of ~~any one of Claims 5, 11, 12, 13, or 15~~, wherein the cell endogenously expresses at least one ~~receptor~~ subunit of the tissue protective cytokine receptor complex.

20. (Currently amended) The method of ~~any one of Claims 5, 11, 12, 13, or 15~~, wherein the cell is a BaF3 cell.

21. (Previously Presented) A method of identifying a compound that modulates the activity of a tissue protective cytokine receptor complex, said method comprising:

- (a) contacting a test compound with a cell of a modified yeast strain containing (i) a nucleotide sequence encoding a reporter gene that is operably linked to a tissue protective cytokine receptor complex-responsive promoter and (ii) expresses a tissue protective cytokine receptor complex; and
- (b) determining the level of activity of a tissue protective cytokine receptor complex by measuring the level of reporter gene expression, such that if the level of reporter gene activity in the presence of the compound increases or decreases relative to the level of reporter gene activity in the absence of the compound, then a compound that modulates the activity of a tissue protective cytokine receptor complex is identified.

22-30. (Cancelled)

31. (Currently amended) The method of ~~any one of Claims 1, 5, 11, 12, 13, 22, or 28~~, wherein the step of assaying the identified compound for tissue protective activity further comprises detecting the presence of nucleolin in the cell and wherein an upregulation of nucleolin in the cell indicates a tissue protective activity.

32. (Currently amended) The method of ~~any one of Claims 1, 5, 11, 12, 13, 22, or 28~~, wherein the step of assaying the identified compound for tissue protective activity further comprises detecting or measuring an increased level of activity of neuroglobin or cytoglobin

in a cell and wherein an upregulation of neuroglobin or cytoglobin in the cell indicates a tissue protective activity.

33-42. (Cancelled)

43. (Currently amended) The method of ~~any one of Claims 1, 5, 11, 12, 13, 15, or 16, 22, 23, 28, or 42,~~ wherein the test compound is an antibody specific for the tissue protective cytokine receptor complex.

44. (Currently amended) The method of ~~any one of Claims 16, 22, 23, 28, or 42,~~ wherein the test compound is an antibody ~~is~~ specific for a tissue protective cytokine receptor complex ligand.

45. (Currently amended) The method of ~~any one of Claims 1, 5, 11, 12, 13, 15, or 16, 22, 23, 28, or 42,~~ wherein the test compound is a small molecule.

46. (Currently amended) The method of ~~any one of Claims 1, 5, 11, 12, 13, 15, or 16, 22, 23, 28, or 42,~~ wherein the test compound is a peptide.

47. (Currently amended) The method of ~~any one of Claims 1, 5, 11, 12, 13, 15, or 16, 22, 23, 28, or 42,~~ wherein the test compound is a member of a library.

48. (Currently amended) The method of ~~any one of Claims 16, 22, 23, 28, or 42~~ 44, wherein the tissue protective cytokine receptor complex ligand is an EPO.

49. (Currently amended) The method of ~~any one of Claims 1, 5, 11, 12, 13, 28, or 42,~~ wherein the compound binds the tissue protective cytokine receptor complex.

50. (Currently amended) The method of ~~any one of Claims 16, 22, 23, 28, or 42~~ 44, wherein the compound binds the tissue protective cytokine receptor complex ligand.